

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING DRAWBRIDGE TRAFFIC CONTROL SIGNAL AT MD 157 OVER BEAR CREEK IN BALTIMORE COUNTY, MARYLAND. MD 157 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

DRAWBRIDGE OPERATION

THE DRAWBRIDGE OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING DRAWBRIDGE CABINET WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 321-2781/2785	MR. MIKE PASQUARIELLO ASST. DISTRICT UTILITY ENGINEER PHONE: (410) 321-2841
MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 321-2761	MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

A } 7-CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G.)

B } 5-CONDUCTOR ELECTRICAL
C } CABLE (NO. 14 A.W.G.)

A.B

A.B

A

B.C

B (ELECTRICAL CABLE FOR
BELL INSTALLED BY OTHERS)

<u>EQUIPMENT LIST "A"</u>		
B. EQUIPMENT TO BE SUPPLIED BY THE SHA		
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
9000	2 EACH	LIGHT POLE

EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

MD 157 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

- REMOVE EXISTING STRAIN POLE AND INSTALL LIGHT POLE WITH 2 INCH WEATHERHEAD. RE-USE EXISTING ANCHOR BOLTS, ANCHOR PLATES AND NUTS. INSTALL WASHERS OR SHIM PLATE AS NECESSARY TO LEVEL PROPOSED LIGHT POLE.
- REMOVE EXISTING STRAIN POLE BASE PLATE AND INSTALL LIGHT POLE WITH 2 INCH WEATHERHEAD. INSTALL 1/2 INCH GROMMET ON LIGHT POLE FOR ELECTRICAL WIRING ACCESS FOR FUTURE BELL TO BE INSTALLED BY OTHERS. RE-USE EXISTING ANCHOR BOLTS, ANCHOR PLATES AND NUTS. INSTALL WASHERS OR SHIM PLATE AS NECESSARY TO LEVEL PROPOSED LIGHT POLE.
- INSTALL 3/8 IN. STEEL SPAN WIRE, SIGNAL HEADS AND 1/4 IN. TETHER SPAN WIRE. (NOTE: BOTTOM TETHER THREE-SECTION SIGNAL HEADS TO 1/4 IN. TETHER WIRE)
- USE EXISTING CABINET AND INSTALL DRAWBRIDGE CABLES TO TERMINAL BLOCK BEING INSTALLED BY OTHERS.
- USE EXISTING CONDUIT.

PROPOSED SIGNAL HEADS

1.2
R
Y
G
12" LED

MD 157 (PENINSULA EXPRESSWAY)

18'

3'

3'

DRAWBRIDGE OFFICE

MD 157 (PENINSULA EXPRESSWAY)

BEAR CREEK


BEAR CREEK

SPECIAL NOTES:

- THE CONTRACTOR SHALL CONTACT MR. JUSTIN BERND AT (410) 545-8389 TWO WEEKS PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT THE BRIDGE ELECTRICIAN AT (443) 336-8619 TO ARRANGE ACCESS INTO THE EXISTING CABINET.

<u>EQUIPMENT LIST "B"</u>		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1001	1 EACH	MAINTENANCE OF TRAFFIC
8002	4 EACH	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	2 EACH	12 INCH YELLOW LED SIGNAL HEAD SECTION
8028	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8045	2 EACH	WEATHER HEAD, 3 INCH
8078	160 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8079	70 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8084	2 EACH	INSTALL STRAIN POLE, ANY SIZE
8085	70 L.F.	STEEL SPAN WIRE - 1/4 INCH DIAMETER
8086	70 L.F.	STEEL SPAN WIRE - 3/8 INCH DIAMETER

REVISIONS				APPROVALS	
(A) RECONSTRUCTION OF DRAWBRIDGE SIGNAL CONTRACT A17825185				2/16/06	
SRB	NML	2/16/06	2/16/06		
				DIRECTOR, TRAFFIC & SAFETY	

	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION <i>Office of Traffic & Safety</i>		
	TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNALIZATION PLAN		
	MD 157 (PENINSULA EXPY) DRAWBRIDGE (BRIDGE NO. 0336500) OVER BEAR CREEK		
DRAWN BY: _____ CHECKED BY: _____ SCALE: 1" = 10' DATE: 2/17/2006	F.A.P. NO. _____ S.H.A. NO. AT7825185 COUNTY: BALTIMORE LOG. MILE: 03.015700.03	TS NO. 4477 <hr/> T.I.M.S. NO. N/A	SHEET NO. 1 OF 1